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|-------------------------------|-----------------|--------------|--|
| <b>Notice of Allowability</b> | Application No. | Applicant(s) |  |
|                               | 09/885,733      | SAKO ET AL.  |  |
|                               | Examiner        | Art Unit     |  |
|                               | Beemnet W. Dada | 2135         |  |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--  
All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to an RCE filed on 11/18/05.
2. ☒ The allowed claim(s) is/are 59-105.
3. ☒ The drawings filed on 27 August 2001 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☒ Certified copies of the priority documents have been received in Application No. 08/690,224.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

#### Attachment(s)

- |   |  |
|---|--|
| <ol style="list-style-type: none"> <li>1. <input type="checkbox"/> Notice of References Cited (PTO-892)</li> <li>2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br/>Paper No./Mail Date _____</li> <li>4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br/>of Biological Material</li> </ol> | <ol style="list-style-type: none"> <li>5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)</li> <li>6. <input type="checkbox"/> Interview Summary (PTO-413),<br/>Paper No./Mail Date _____</li> <li>7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment</li> <li>8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance</li> <li>9. <input type="checkbox"/> Other _____</li> </ol> |
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**DETAILED ACTION**

**EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Darren M. Simon Reg. No. 47,946 on 01/19/2005.

The application has been amended as follows: In the claims,

Claim 59. (Currently Amended) A digital video signal recorder capable of inhibiting unauthorized copying of an analog video signal, comprising:

an input terminal for receiving said analog video signal, said analog video signal including a copy protection signal;

analog-to-digital converting means for converting said analog video signal to digital video data;

compression means for compressing said digital video data to generate compressed video data;

detecting means for detecting said copy protection signal included in said analog video signal;

generating means for generating copy management information according to a state of said copy protection signal detected by said detecting means;

appending means for appending said copy management information to said compressed video data; and

recording means for recording said compressed video data with appended copy management information, said copy management information being recorded at a pre-set position of a record medium;

whereby said copy management information is digital information that is generated based on an analog signal; said copy management information including an indicator of whether copying of only digital video data generated ~~from~~ from the received analog video signal is inhibited ~~or~~ and copying of both digital and analog video data generated from the received analog video signal is inhibited.

Claim 70. (Currently Amended) A digital video signal recorder capable of inhibiting unauthorized copying of an analog video signal, comprising:

an input terminal for receiving said analog video signal, said analog video signal including a copy protection signal;

analog-to-digital converting means for converting said analog video signal to digital video data;

compression means for compressing said digital video data to generate compressed video data;

detecting means for detecting said copy protection signal included in said analog video signal;

generating means for generating copy management information according to a state of said copy protection signal detected by said detecting means;

scrambling means for generating scrambled video data by scrambling said compressed video data according to key information; and

recording means for recording said scrambled video data with said key information, said key information being recorded at a pre-set position of a record medium;

whereby said copy management information is digital information that is generated based on an analog signal; said copy management information including an indicator of whether copying of only digital video data generated ~~from~~ from the received analog video signal is inhibited ~~or~~ and copying of both digital and analog video data generated from the received analog video signal is inhibited.

Claim 75. (Currently Amended) A digital video signal recorder capable of inhibiting unauthorized copying of an analog video signal, comprising:

an input terminal for receiving said analog video signal, said analog video signal including a copy protection signal;

analog-to-digital converting means for converting said analog video signal to digital video data;

compression means for compressing said digital video data to generate compressed video data;

detecting means for detecting said copy protection signal included in said analog video signal;

generating means for generating copy management information according to a state of said copy protection signal detected by said detecting means;

scrambling means for generating scrambled video data by scrambling said compressed video data according to key information;

appending means for appending said copy management information to said scrambled video data; and

recording means for recording said scrambled video data with said copy management information and said key information, said copy management information and said key information being recorded at a pre-set position of a record medium;

whereby said copy management information is digital information that is generated based on an analog signal; said copy management information including an indicator of whether copying of only digital video data generated ~~from~~ from the received analog video signal is inhibited ~~or~~ and copying of both digital and analog video data generated from the received analog video signal is inhibited.

Claim 80. (Currently Amended) A digital video signal recording method through which unauthorized copying of an analog video signal can be inhibited, comprising the steps of:

receiving said analog video signal, said analog video signal including a copy protection signal;

performing an analog-to-digital conversion on said analog video signal to generate digital video data;

compressing said digital video data to generate compressed video data;

detecting said copy protection signal included in said analog video signal;

generating copy management information according to a state of said copy protection signal detected in said step of detecting;

appending said copy management information to said compressed video data; and

recording said compressed video data with appended copy management information, said copy management information being recorded at a pre-set position of a record medium;

whereby said copy management information is digital information that is generated based on an analog signal; said copy management information including an indicator of whether

copying of only digital video data generated ~~from~~ from the received analog video signal is inhibited ~~or~~ and copying of both digital and analog video data generated from the received analog video signal is inhibited.

Claim 91. (Currently Amended) A digital video signal recording method through which unauthorized copying of an analog video signal can be inhibited, comprising the steps of:

- receiving said analog video signal, said analog video signal including a copy protection signal;

- performing an analog-to-digital conversion on said analog video signal to generate digital video data;

- compressing said digital video data to generate compressed video data;

- detecting said copy protection signal included in said analog video signal;

- generating copy management information according to a state of said copy protection signal detected in said step of detecting;

- scrambling said compressed video data according to key information to generate scrambled video data; and

- recording said scrambled video data with said key information, said key information being recorded at a pre-set position of a record medium;

- whereby said copy management information is digital information that is generated based on an analog signal; said copy management information including an indicator of whether copying of only digital video data generated ~~from~~ from the received analog video signal is inhibited ~~or~~ and copying of both digital and analog video data generated from the received analog video signal is inhibited.

Claim 96. (Currently Amended) A digital video signal recording method through which unauthorized copying of an analog video signal can be inhibited, comprising the steps of:

receiving said analog video signal, said analog video signal including a copy protection signal;

performing an analog-to-digital conversion on said analog video signal to generate digital video data;

compressing said digital video data to generate compressed video data;

detecting said copy protection signal included in said analog video signal;

generating copy management information according to a state of said copy protection signal detected in said step of detecting;

scrambling said compressed video data according to key information to generate scrambled video data;

appending said copy management information to said scrambled video data; and recording said scrambled video data with said copy management information and said key information, said copy management information and said key information being recorded at a pre-set position of a record medium;

whereby said copy management information is digital information that is generated based on an analog signal; said copy management information including an indicator of whether copying of only digital video data generated ~~from~~ from the received analog video signal is inhibited ~~or~~ and copying of both digital and analog video data generated from the received analog video signal is inhibited.

Claim 101. (Currently Amended) A digital video signal recorder capable of inhibiting unauthorized copying of an analog video signal, comprising:

an input terminal for receiving said analog video signal, said analog video signal including a copy protection signal;

analog-to-digital converting means for converting said analog video signal to digital video data;

compression means for compressing said digital video data to generate compressed video data;

detecting means for detecting said copy protection signal included in said analog video signal;

generating means for generating copy management information according to a state of said copy protection signal detected by said detecting means;

scrambling means for generating scrambled video data by scrambling said compressed video data according to said copy management information; and

encoding and modulating means for recording said scrambled video data and said copy management information on a record medium, said copy management information being recorded at a pre-set position of said record medium;

whereby said copy management information is digital information that is generated based on an analog signal; said copy management information including an indicator of whether copying of only digital video data generated ~~from~~ from the received analog video signal is inhibited ~~or~~ and copying of both digital and analog video data generated from the received analog video signal is inhibited.



Claim 103. (Currently Amended) A digital signal recorder capable of inhibiting unauthorized copying of an analog signal, comprising:

an input terminal for receiving said analog signal, said analog signal including a copy protection signal;

analog-to-digital converting means for converting said analog signal to digital data;

compression means for compressing said digital data to generate compressed data;

detecting means for detecting said copy protection signal included in said analog signal, said copy protection signal being a signal coded with plural bits, being located at a pre-set position of said analog signal and being indicative of a copy generation limitation;

generating means for generating copy management information according to a state of said copy protection signal detected by said detecting means;

appending means for appending said copy management information to said compressed data; and

recording means for recording said compressed data with appended copy management information, said copy management information being recorded at a pre-set position of a record medium;

whereby said copy management information is digital information that is generated based on an analog signal; said copy management information including an indicator of whether copying of only digital video data generated ~~from~~ from the received analog video signal is inhibited ~~or~~ and copying of both digital and analog video data generated from the received analog video signal is inhibited.

Claim 104. (Currently Amended) A digital signal recorder capable of inhibiting unauthorized copying of an analog signal, comprising:

an input terminal for receiving said analog signal, said analog signal including a copy protection signal;

analog-to-digital converting means for converting said analog signal to digital data;

compression means for compressing said digital data to generate compressed data;

detecting means for detecting said copy protection signal included in said analog signal, said copy protection signal being a signal coded with plural bits, being located at a pre-set position of said analog signal and being indicative of a copy generation limitation;

generating means for generating copy management information according to a state of said copy protection signal detected by said detecting means;

scrambling means for generating scrambled data by scrambling said compressed data according to said copy management information; and

encoding and modulating means for recording said scrambled data and said copy management information on a record medium;

whereby said copy management information is digital information that is generated based on an analog signal; said copy management information including an indicator of whether copying of only digital video data generated ~~from~~ from the received analog video signal is inhibited ~~or~~ and copying of both digital and analog video data generated from the received analog video signal is inhibited.

Claim 105. (Currently Amended) A digital video signal recording method through which unauthorized copying of an analog video signal can be inhibited, comprising the steps of:

receiving said analog video signal, said analog video signal including a copy protection signal;

performing and analog-to-digital conversion on said analog video signal to generate digital video data;

compressing said digital video data to generate compressed video data;

detecting said copy protection signal included in said analog video signal;

generating copy management information according to a state of said copy protection signal detected in said step of detecting;

scrambling said compressed video data according to said copy management information to generate scrambled video data;

encoding and modulating said scrambled video data and said copy management information to generate encoded and modulated data; and

recording said encoded and modulated data on a record medium such that a portion of said encoded and modulated data corresponding to said copy management information is recorded at a pre-set position of said record medium;

whereby said copy management information is digital information that is generated based on an analog signal; said copy management information including an indicator of whether copying of only digital video data generated ~~from~~ from the received analog video signal is inhibited ~~or~~ and copying of both digital and analog video data generated from the received analog video signal is inhibited.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Beemnet W. Dada whose telephone number is (571) 272-3847. The examiner can normally be reached on Monday - Friday (9:00 am - 5:30 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Y. Vu can be reached on (571) 272-3859. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Beemnet Dada

January 22, 2006

  
**KIM VU**  
**SUPERVISORY PATENT EXAMINER**  
**TECHNOLOGY CENTER 2100**